Current To Do:
- Annotate code

Problems:
- Invalid fit alert for Fvoigt 25 Mpc case 1 and 2, Fvoigt 35 Mpc case 1, Roger 10 Mpc case 1 and 2, Roger 25 Mpc case 2, Roger 35 Mpc case 2 but png files look good/chi squared not bad
- Same alert for Fvoigt 35 Mpc case 2 but didn't produce png files at all
- Fix priors?
- Real mock autocross qso errors, do not output fits/png files ("Hesse FAILED" error and "Invalid fit!" alert)
- Still no qso png files or correlations
- Chi squared negative again but not an invalid fit?

Past To Do:
- Check which models are fitting L0_hcd
- Plot correlation functions to check fits
    - Revisit chi squared (Vega Fits.xlsx)
        - Roger vs fvoigt models w hcds
    - 4 wedge models
        - No hcd/17/20
- Look at new mocks
- 20 mock
    - Compare 10/25/35 phi s values for roger model
    - Compare 25 for no model/fvoigt/roger
- Repeat for real mock
    - Correct qso files
    - Start w true & fitted DLA cases (10/25/35)
    - Then run unmasked cases only at 25
    - *See picture* every three x is a plot and every circle is a plot
    - Current DLA catalog is for unmask, use new catalog for mask cases

Future To Do:
- Install/run sampler on NERSC
- Test new French model
- Switch to Perlmutter